FIG. 1

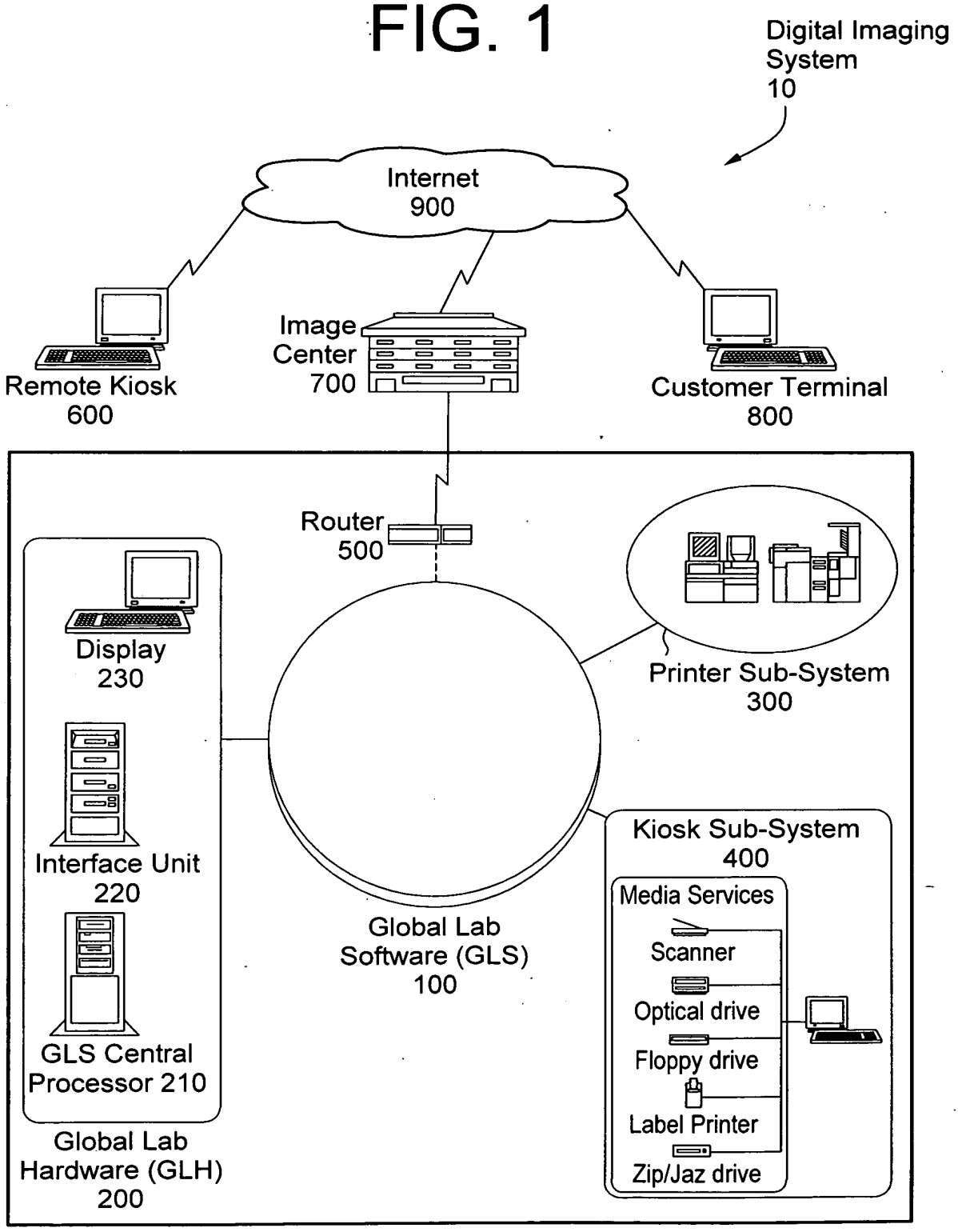

Digital Imaging System 10
Internet 900
Remote Kiosk 600
Image Center 700
Customer Terminal 800
Router 500
Display 230
Printer Sub-System 300
Interface Unit 220
Global Lab Software (GLS) 100
Kiosk Sub-System 400
Media Services
Scanner
Optical drive
Floppy drive
Label Printer
Zip/Jaz drive
GLS Central Processor 210
Global Lab Hardware (GLH) 200

FIG. 2

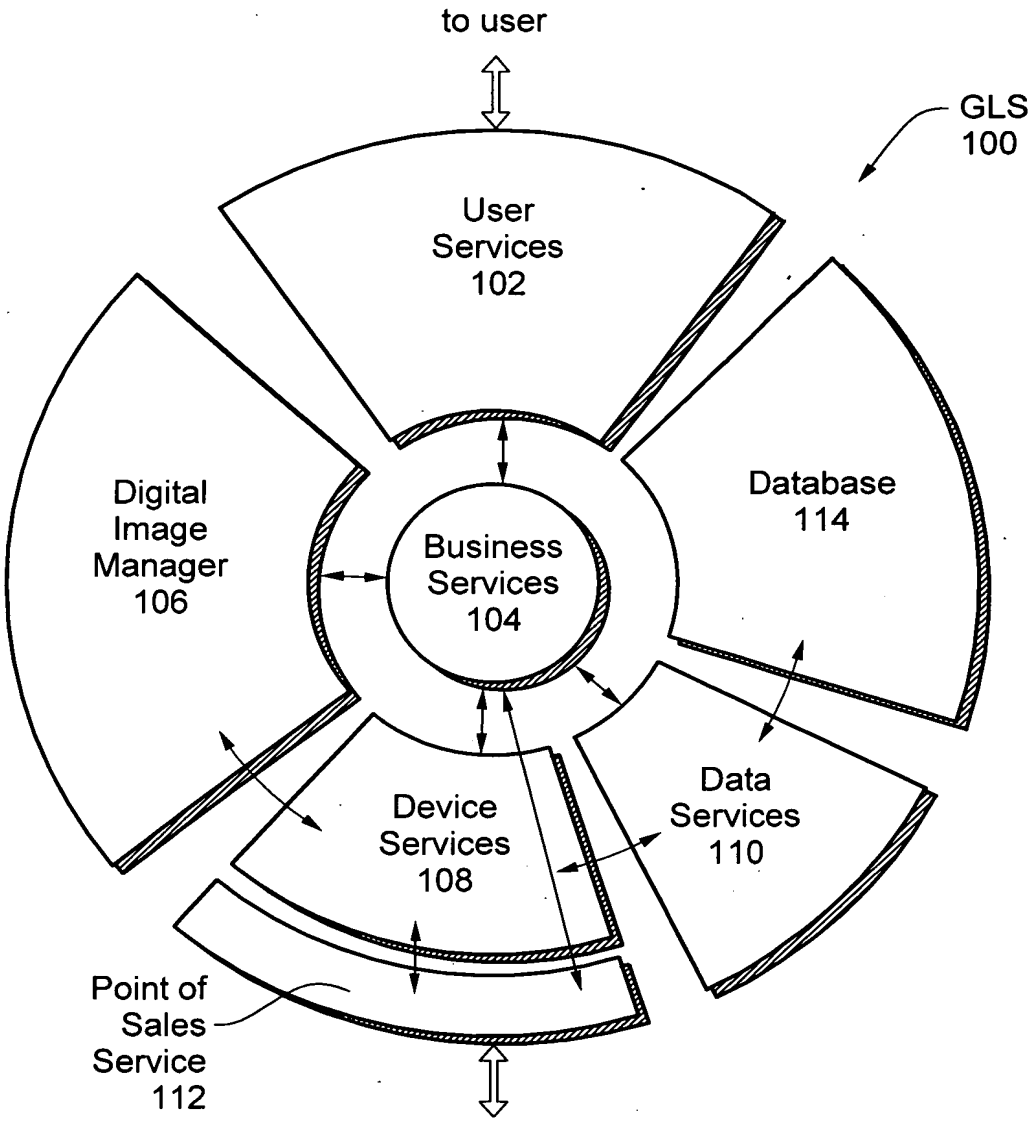

to user
GLS
100
User
Services
102
Digital
Image
Manager
106
Business
Services
104
Database
114
Device
Services
108
Data
Services
110
Point of
Sales
Service
112

FIG. 3

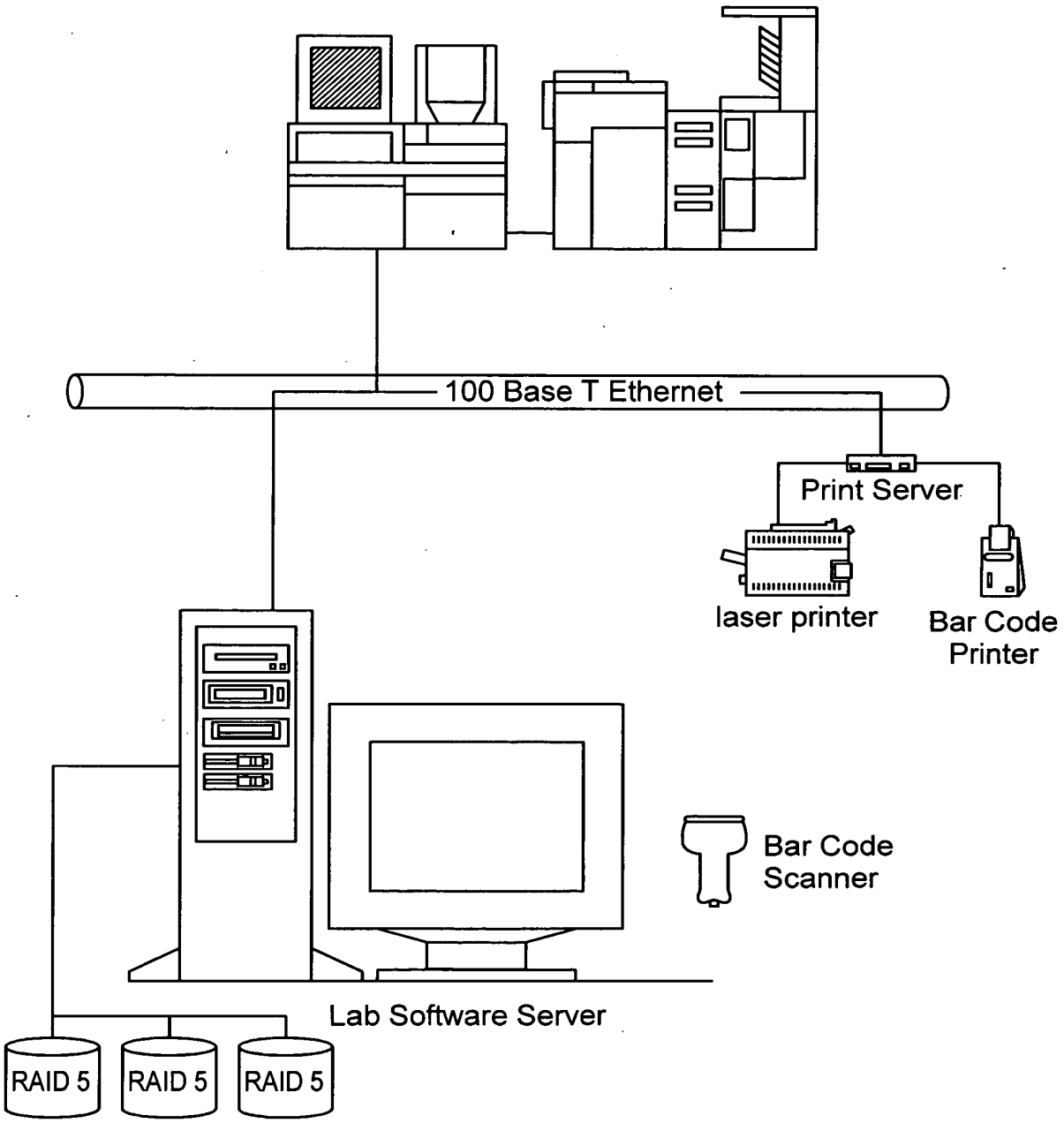
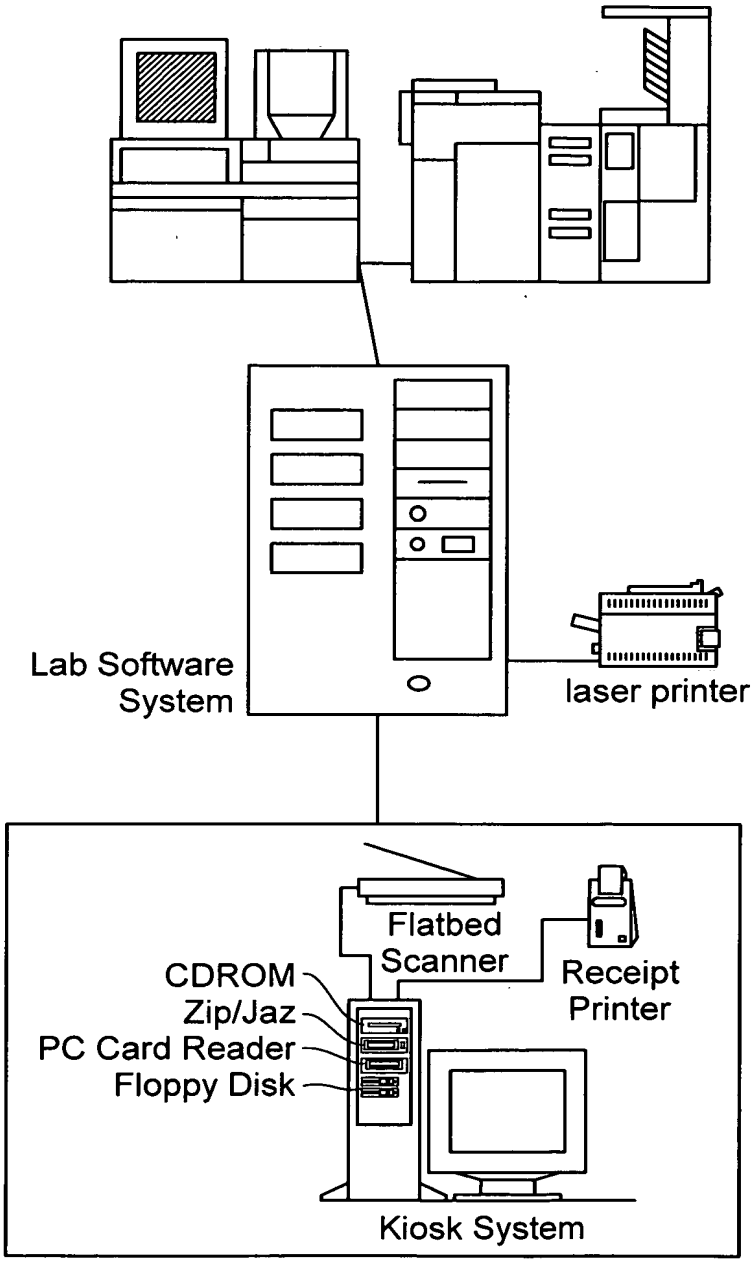

100 Base T Ethernet
Print Server
laser printer
Bar Code Printer
Bar Code Scanner
Lab Software Server
RAID 5
RAID 5
RAID 5

FIG. 4


Lab Software System
laser printer
Flatbed Scanner
Receipt Printer
CDROM
Zip/Jaz
PC Card Reader
Floppy Disk
Kiosk System

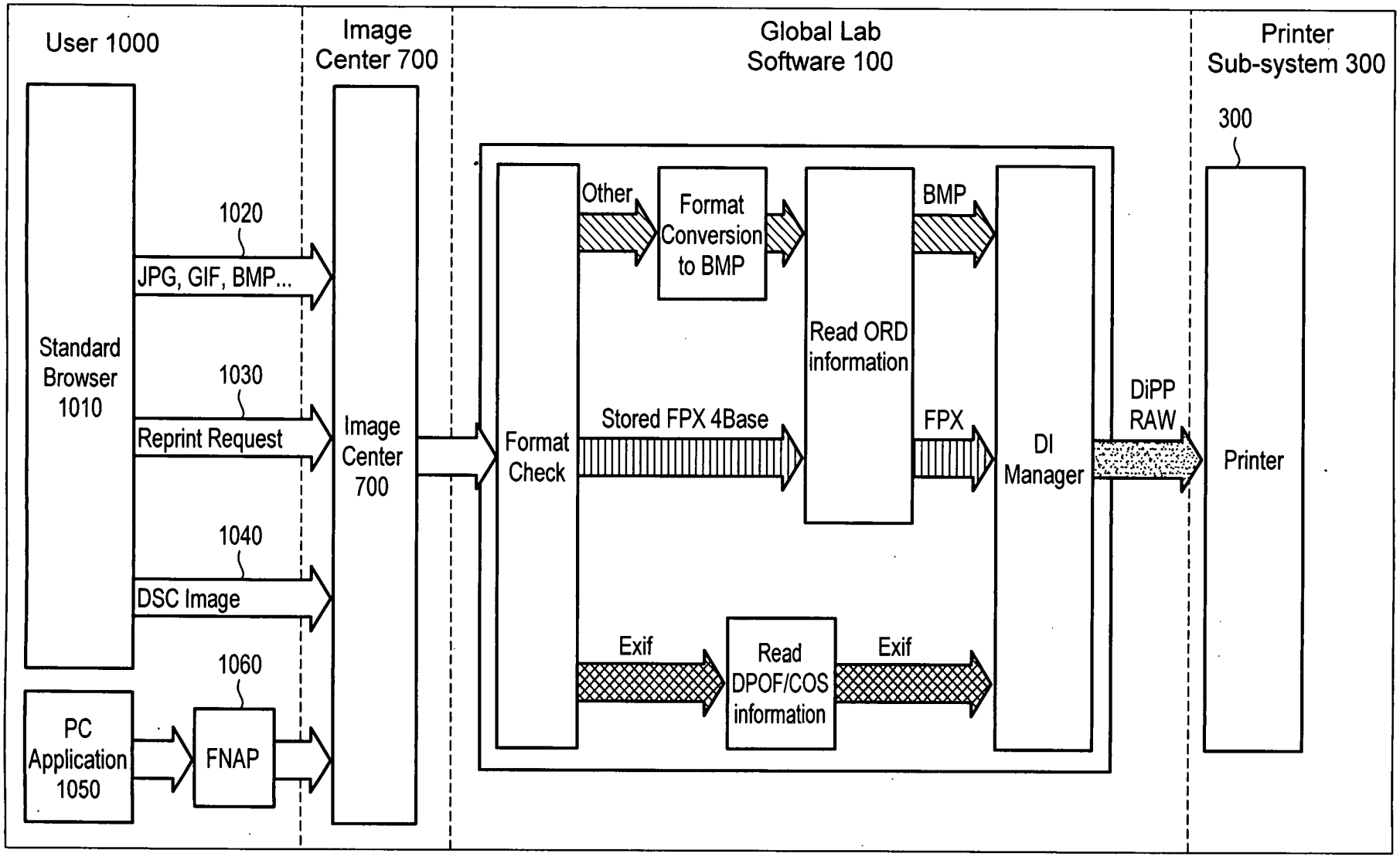

User 1000
Image Center 700
Global Lab Software 100
Printer Sub-system 300
300
Standard Browser 1010
1020
JPG, GIF, BMP...
1030
Reprint Request
1040
DSC Image
1060
PC Application 1050
FNAP
Image Center 700
Format Check
Other
Format Conversion to BMP
BMP
Read ORD information
Stored FPX 4Base
FPX
Exif
Read DPOF/COS information
Exif
DI Manager
DiPP RAW
Printer

FIG. 5

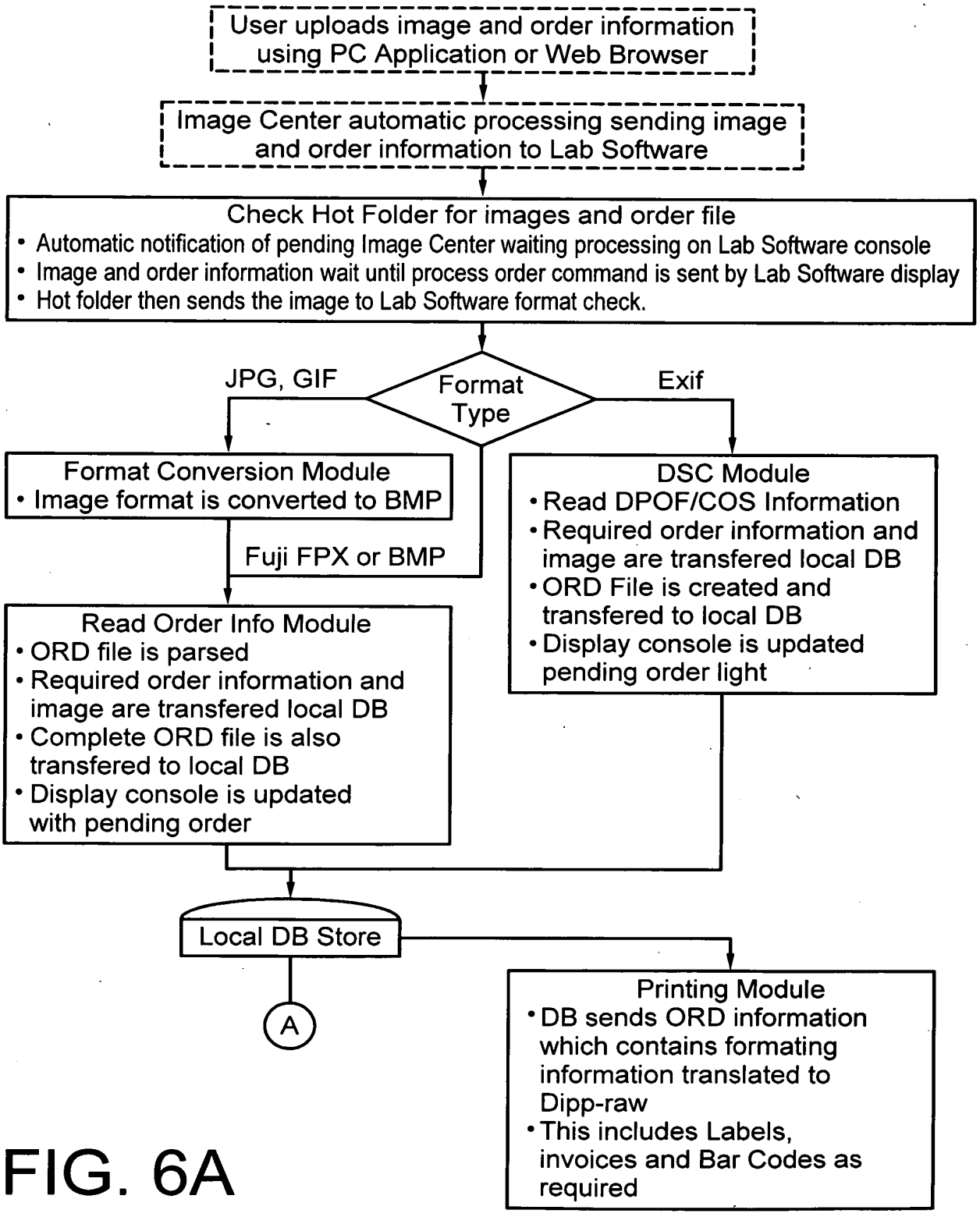

User uploads image and order information using PC Application or Web Browser
Image Center automatic processing sending image and order information to Lab Software
Check Hot Folder for images and order file
• Automatic notification of pending Image Center waiting processing on Lab Software console
• Image and order information wait until process order command is sent by Lab Software display
• Hot folder then sends the image to Lab Software format check.
Format Type
JPG, GIF
Exif
Format Conversion Module
• Image format is converted to BMP
Fuji FPX or BMP
DSC Module
• Read DPOF/COS Information
• Required order information and image are transfered local DB
• ORD File is created and transfered to local DB
• Display console is updated pending order light
Read Order Info Module
• ORD file is parsed
• Required order information and image are transfered local DB
• Complete ORD file is also transfered to local DB
• Display console is updated with pending order
Local DB Store
A
Printing Module
• DB sends ORD information which contains formating information translated to Dipp-raw
• This includes Labels, invoices and Bar Codes as required

FIG. 6A

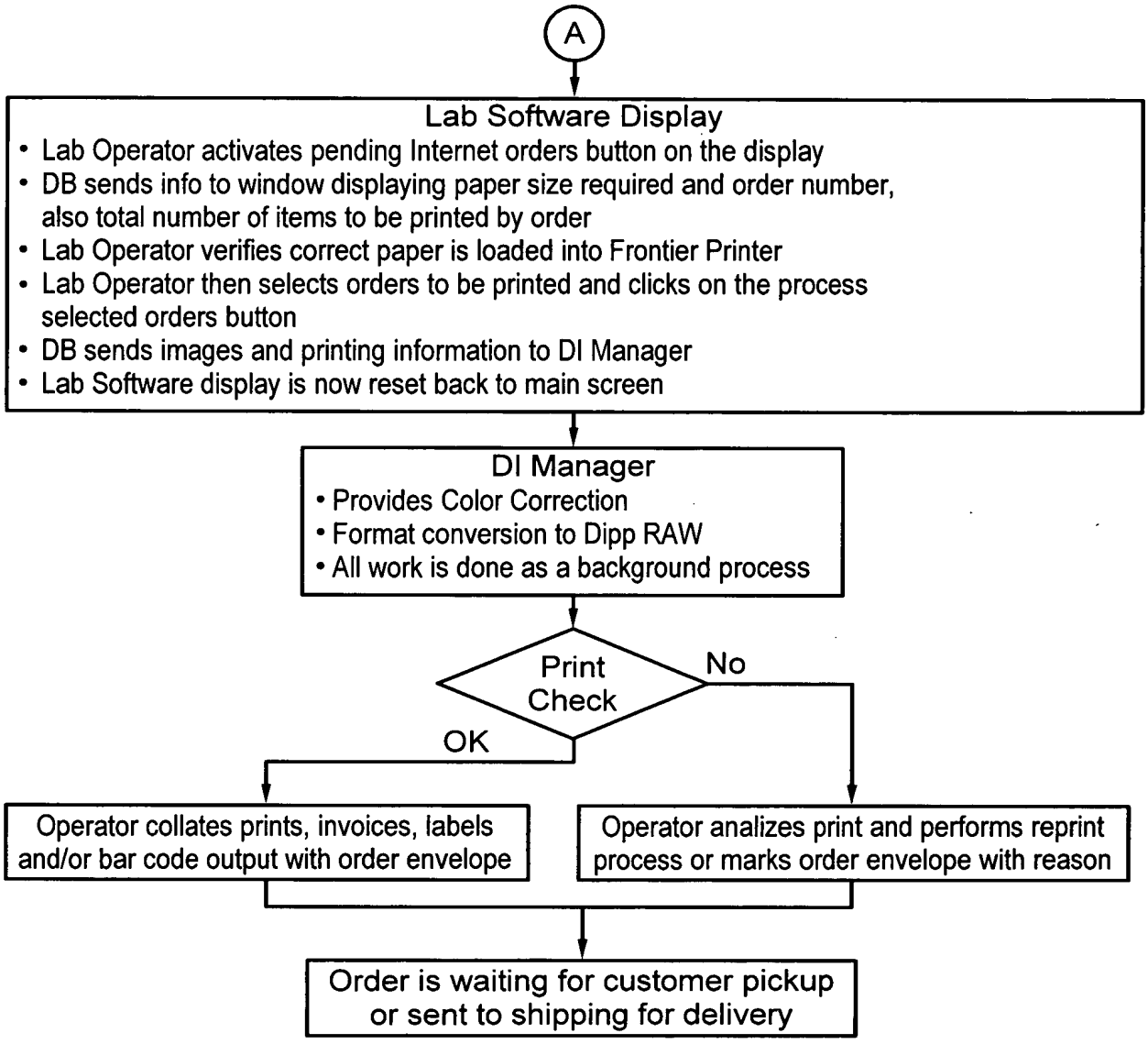

A
Lab Software Display
• Lab Operator activates pending Internet orders button on the display
• DB sends info to window displaying paper size required and order number, also total number of items to be printed by order
• Lab Operator verifies correct paper is loaded into Frontier Printer
• Lab Operator then selects orders to be printed and clicks on the process selected orders button
• DB sends images and printing information to DI Manager
• Lab Software display is now reset back to main screen
DI Manager
• Provides Color Correction
• Format conversion to Dipp RAW
• All work is done as a background process
Print Check
No
OK
Operator collates prints, invoices, labels and/or bar code output with order envelope
Operator analizes print and performs reprint process or marks order envelope with reason
Order is waiting for customer pickup or sent to shipping for delivery

FIG. 6B

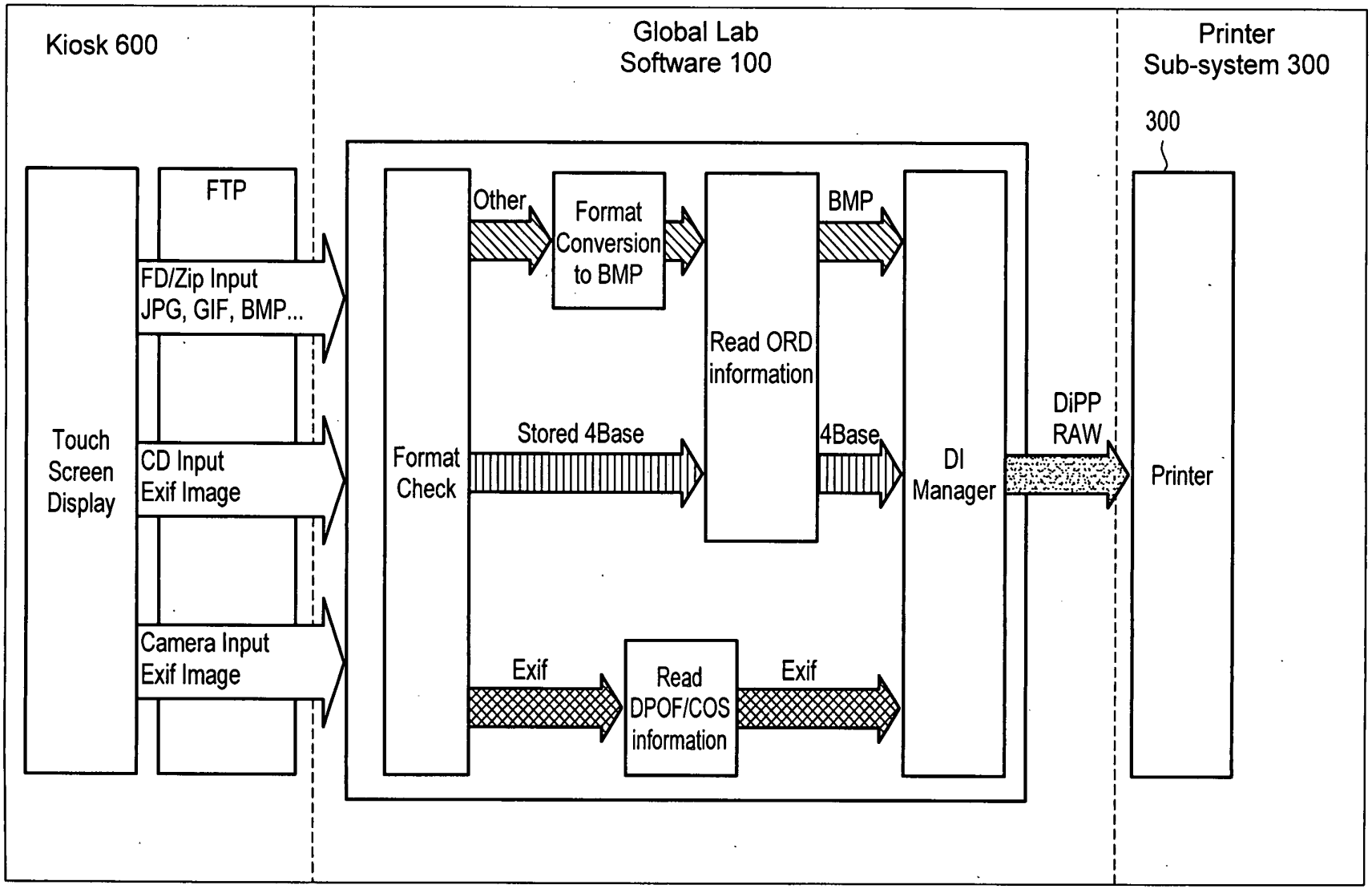

Kiosk 600
Global Lab
Software 100
Printer
Sub-system 300
300
FTP
FD/Zip Input
JPG, GIF, BMP...
CD Input
Exif Image
Camera Input
Exif Image
Touch
Screen
Display
Format
Check
Other
Format
Conversion
to BMP
BMP
Read ORD
information
Stored 4Base
4Base
DI
Manager
DiPP
RAW
Printer
Exif
Read
DPOF/COS
information
Exif

FIG. 7

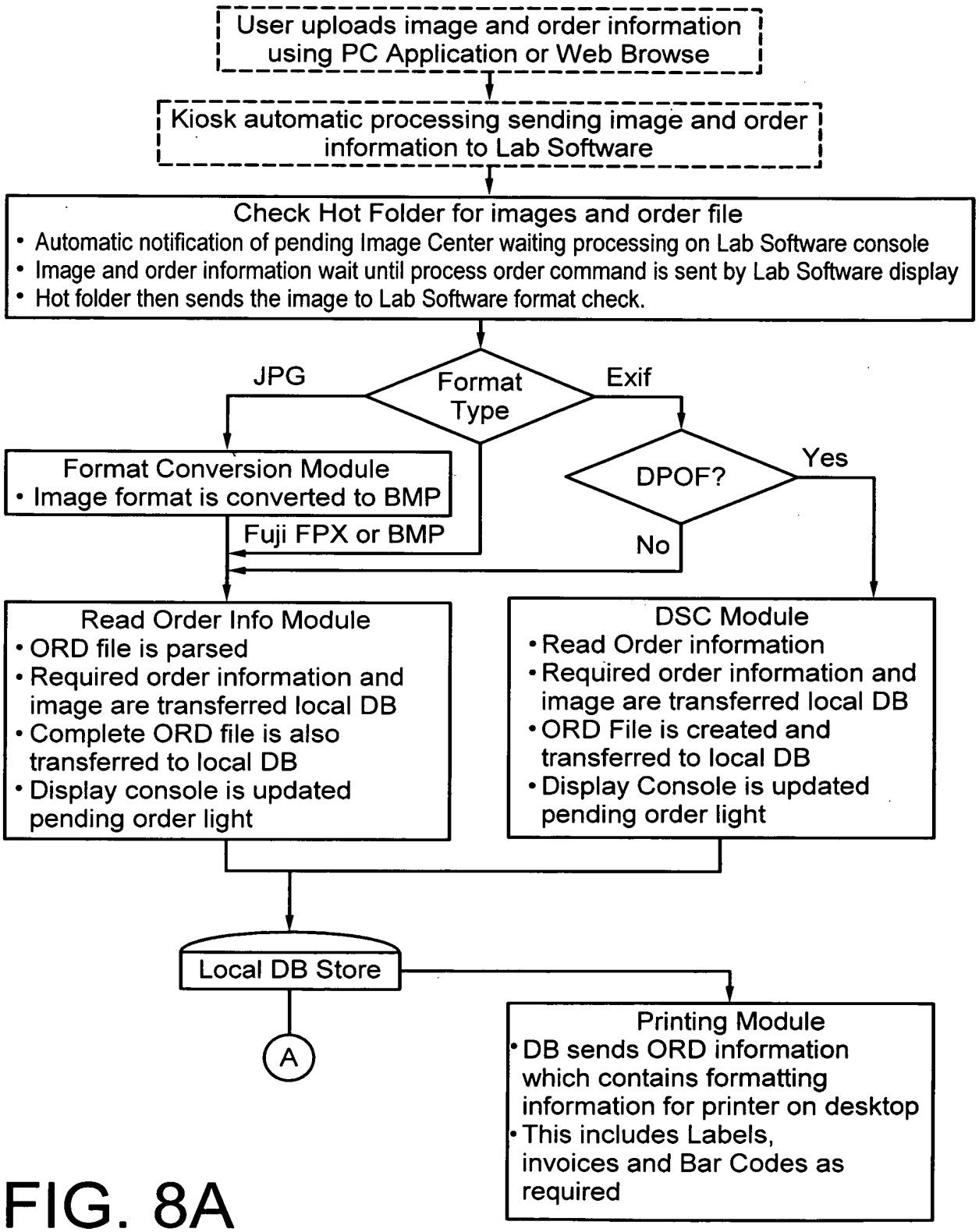

User uploads image and order information using PC Application or Web Browse
Kiosk automatic processing sending image and order information to Lab Software
Check Hot Folder for images and order file
• Automatic notification of pending Image Center waiting processing on Lab Software console
• Image and order information wait until process order command is sent by Lab Software display
• Hot folder then sends the image to Lab Software format check.
Format Type
JPG
Exif
Format Conversion Module
• Image format is converted to BMP
Fuji FPX or BMP
DPOF?
Yes
No
Read Order Info Module
• ORD file is parsed
• Required order information and image are transferred local DB
• Complete ORD file is also transferred to local DB
• Display console is updated pending order light
DSC Module
• Read Order information
• Required order information and image are transferred local DB
• ORD File is created and transferred to local DB
• Display Console is updated pending order light
Local DB Store
A
Printing Module
• DB sends ORD information which contains formatting information for printer on desktop
• This includes Labels, invoices and Bar Codes as required

FIG. 8A

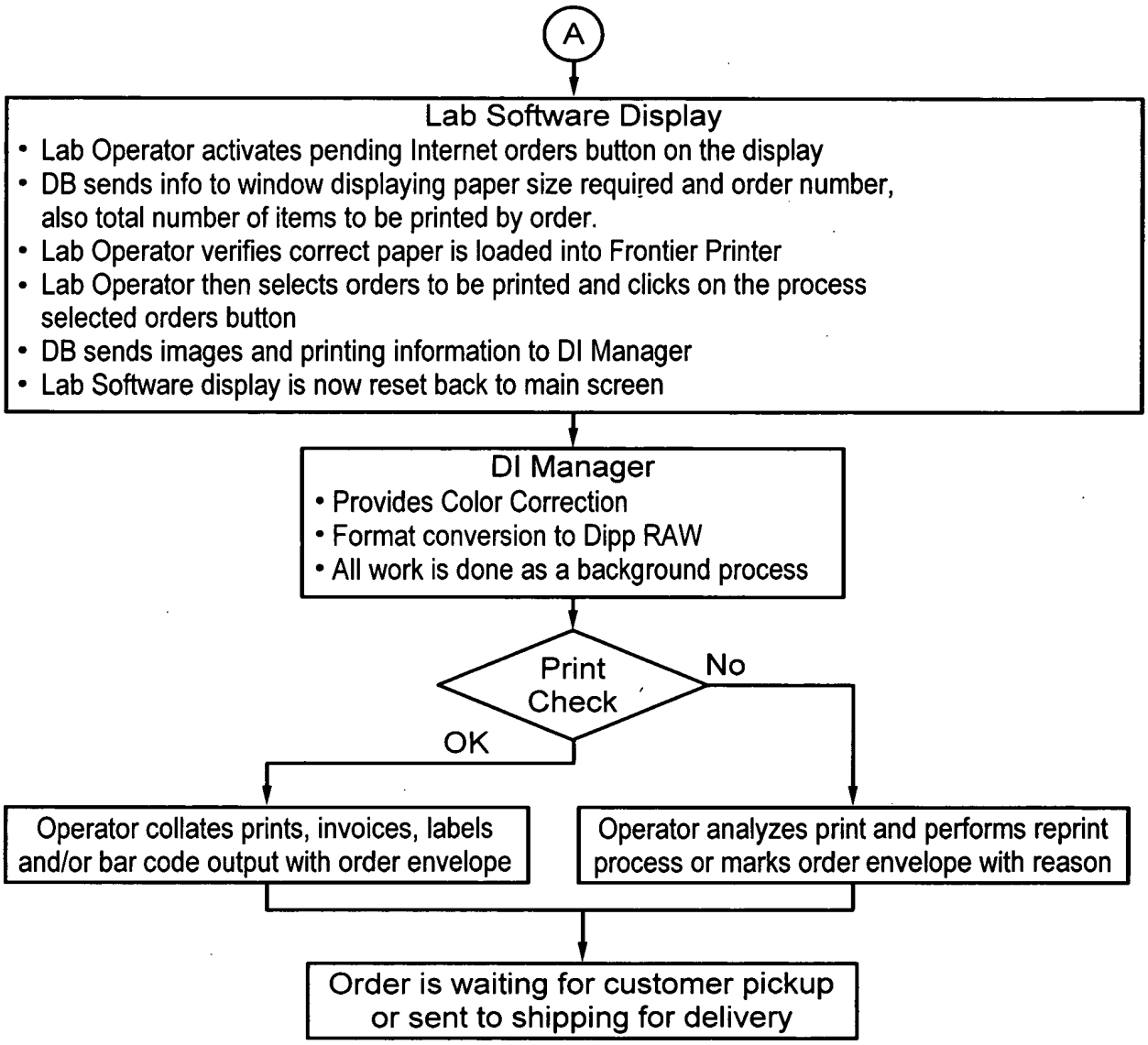

A
Lab Software Display
• Lab Operator activates pending Internet orders button on the display
• DB sends info to window displaying paper size required and order number, also total number of items to be printed by order.
• Lab Operator verifies correct paper is loaded into Frontier Printer
• Lab Operator then selects orders to be printed and clicks on the process selected orders button
• DB sends images and printing information to DI Manager
• Lab Software display is now reset back to main screen
DI Manager
• Provides Color Correction
• Format conversion to Dipp RAW
• All work is done as a background process
Print Check
No
OK
Operator collates prints, invoices, labels and/or bar code output with order envelope
Operator analyzes print and performs reprint process or marks order envelope with reason
Order is waiting for customer pickup or sent to shipping for delivery

FIG. 8B

TOSTSO 80328260

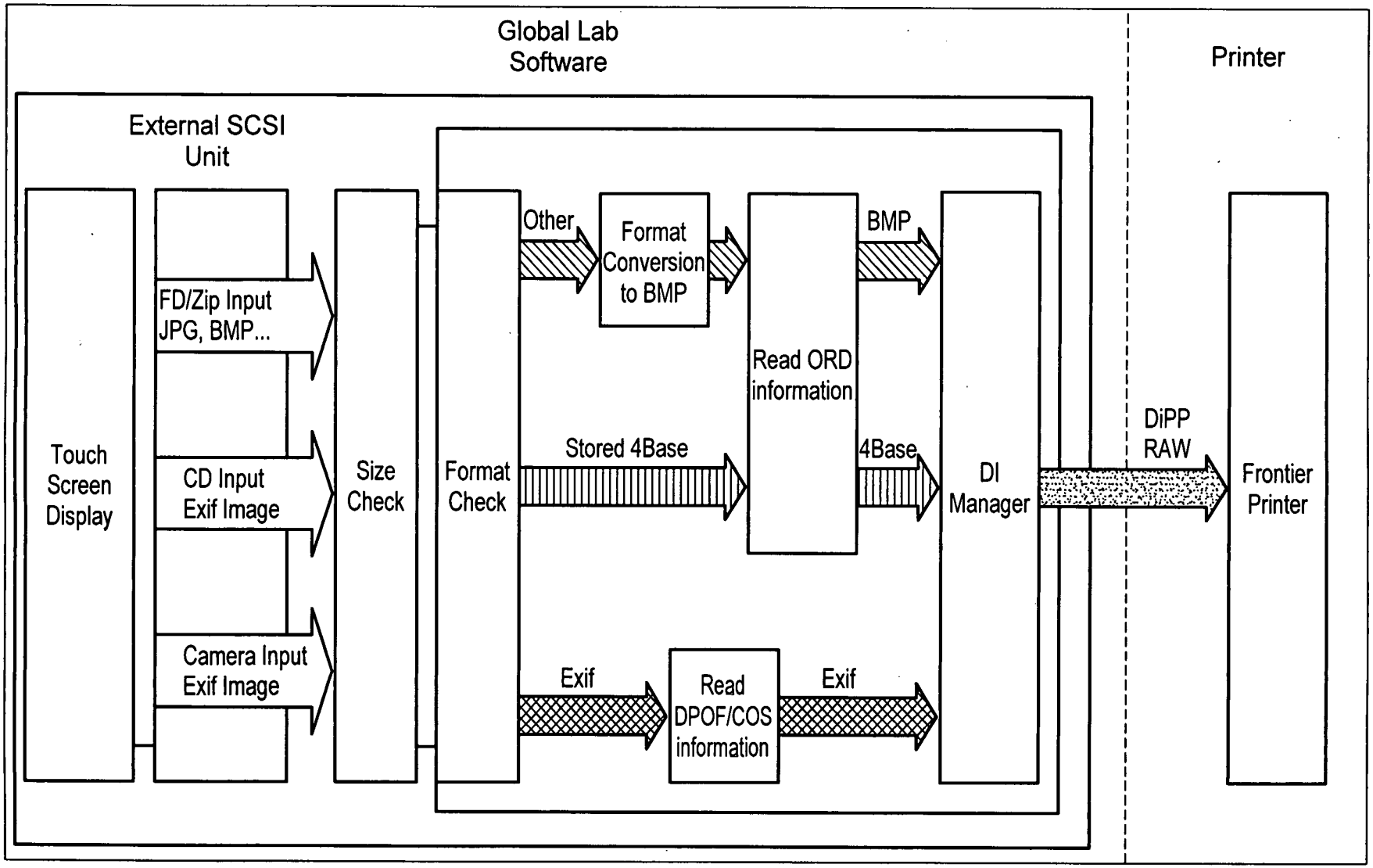


FIG. 9

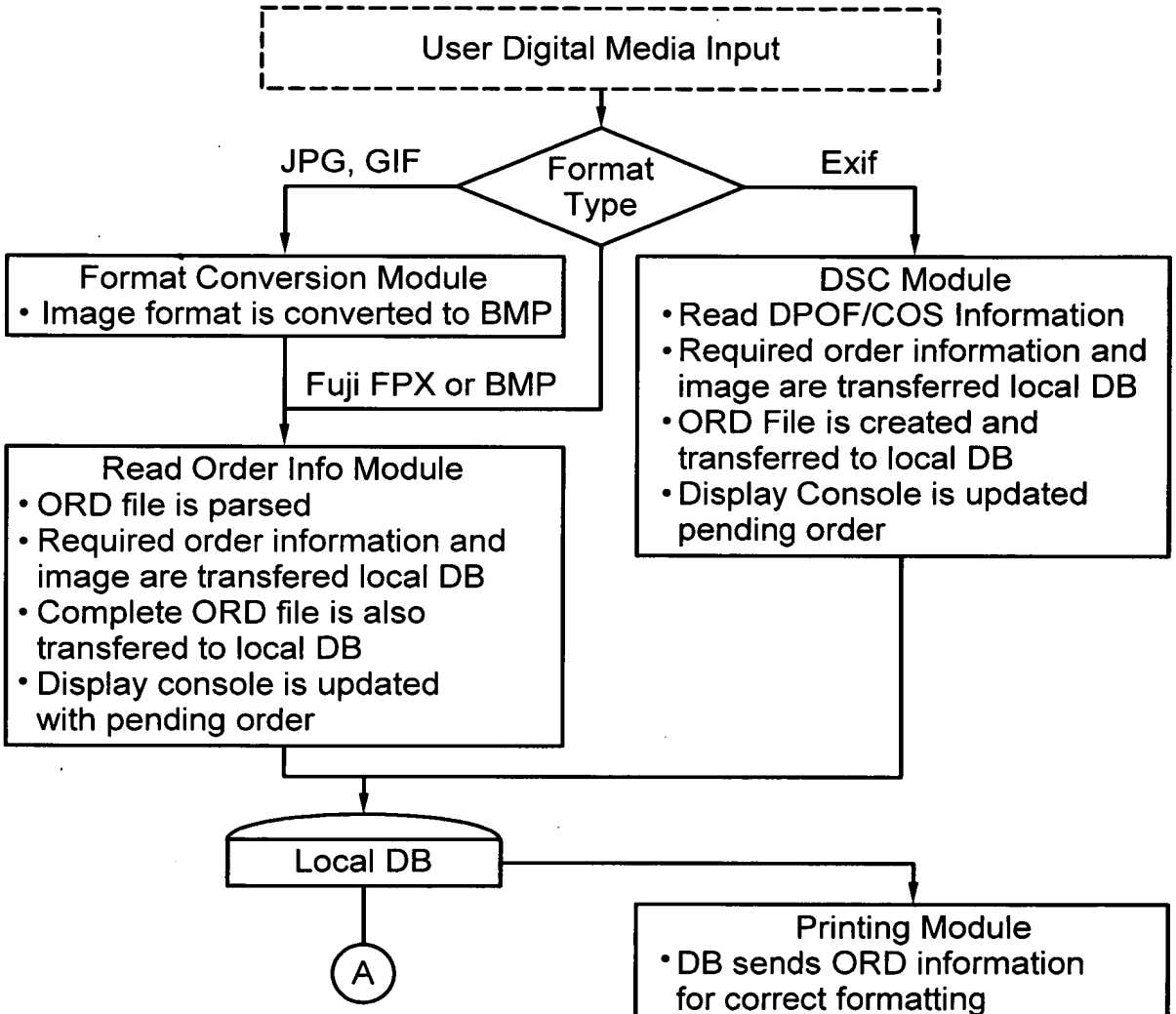

User Digital Media Input
JPG, GIF
Format Type
Exif
Format Conversion Module
• Image format is converted to BMP
Fuji FPX or BMP
DSC Module
• Read DPOF/COS Information
• Required order information and image are transferred local DB
• ORD File is created and transferred to local DB
• Display Console is updated pending order
Read Order Info Module
• ORD file is parsed
• Required order information and image are transfered local DB
• Complete ORD file is also transfered to local DB
• Display console is updated with pending order
Local DB
A
Printing Module
• DB sends ORD information for correct formatting to be printed on desktop printer
• This includes Labels, invoices and Bar Codes as required

FIG. 10A

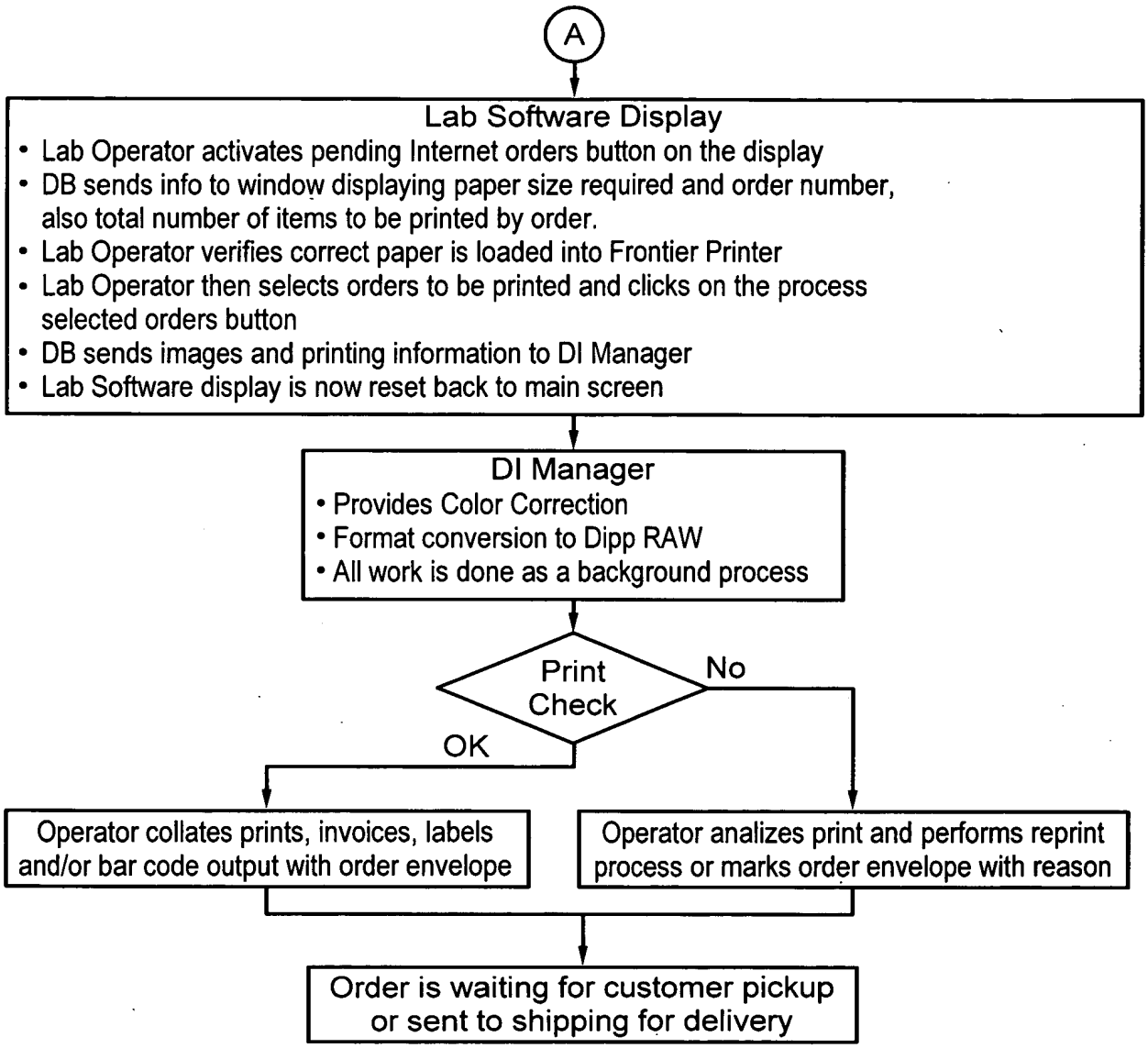

A
Lab Software Display
• Lab Operator activates pending Internet orders button on the display
• DB sends info to window displaying paper size required and order number, also total number of items to be printed by order.
• Lab Operator verifies correct paper is loaded into Frontier Printer
• Lab Operator then selects orders to be printed and clicks on the process selected orders button
• DB sends images and printing information to DI Manager
• Lab Software display is now reset back to main screen
DI Manager
• Provides Color Correction
• Format conversion to Dipp RAW
• All work is done as a background process
Print Check
No
OK
Operator collates prints, invoices, labels and/or bar code output with order envelope
Operator analizes print and performs reprint process or marks order envelope with reason
Order is waiting for customer pickup or sent to shipping for delivery

FIG. 10B

TOSTSO "80S2S260

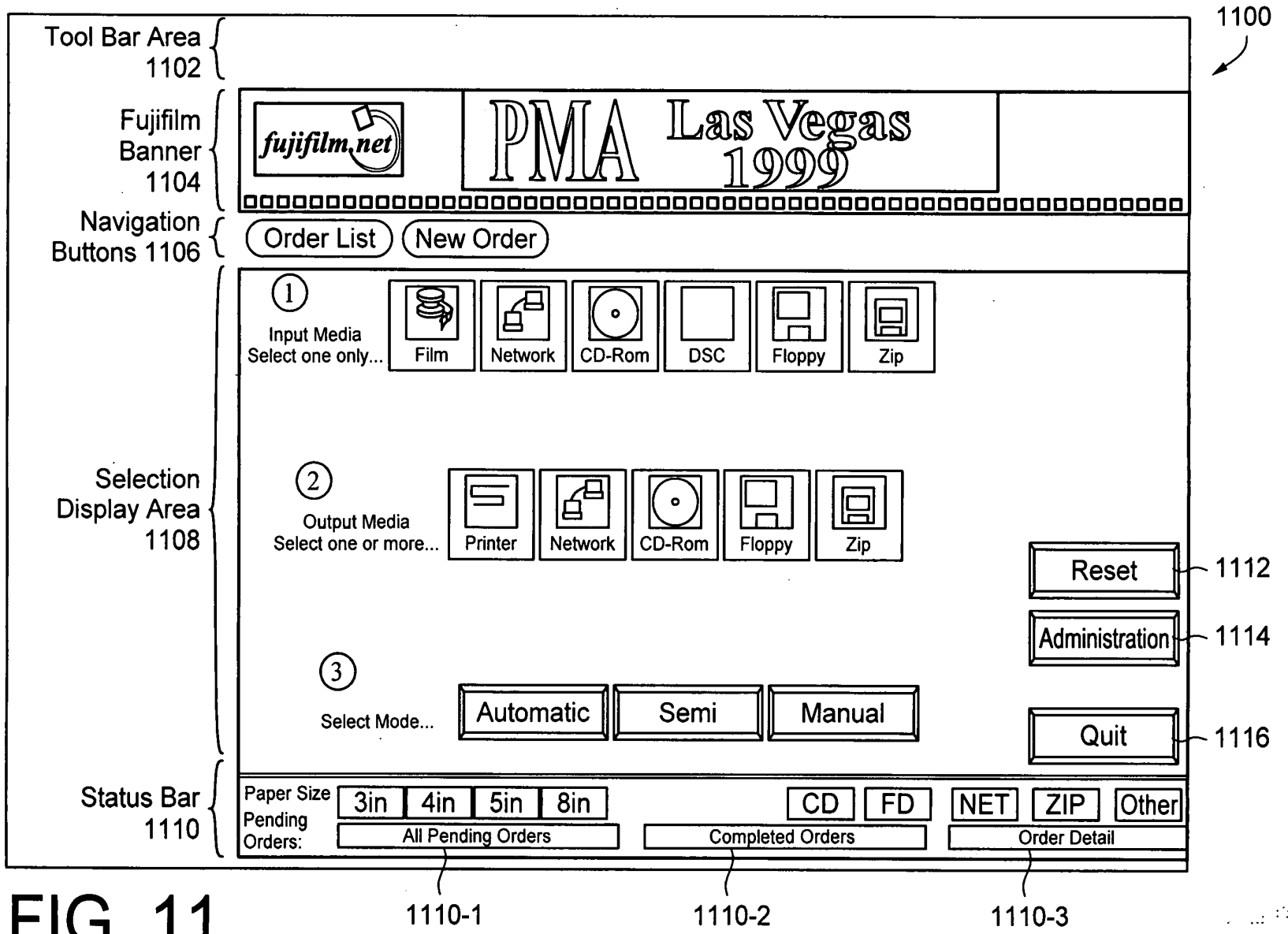


FIG. 11

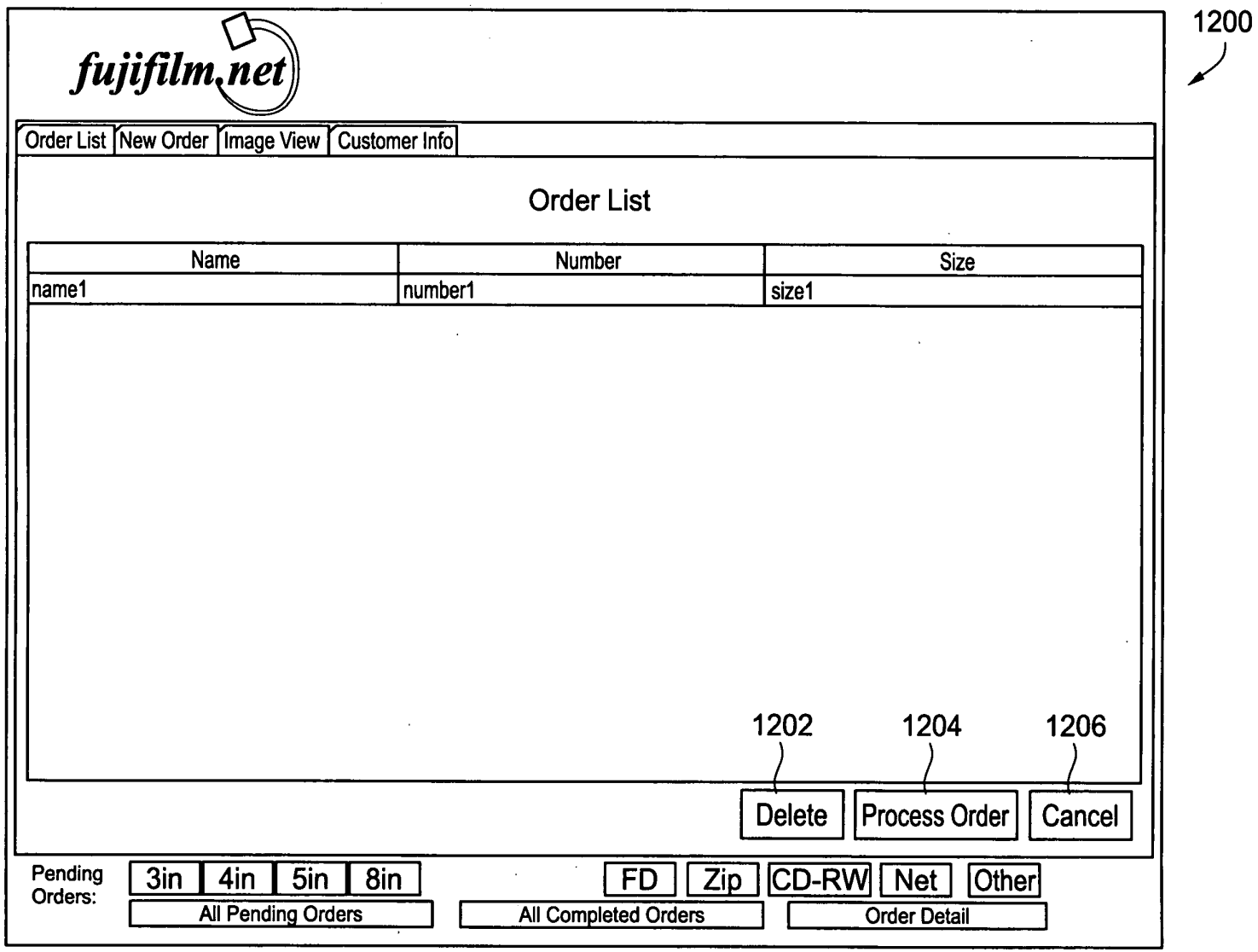

1200
fujifilm.net
Order List
New Order
Image View
Customer Info
Order List
Name
Number
Size
name1
number1
size1
1202
1204
1206
Delete
Process Order
Cancel
Pending Orders:
3in
4in
5in
8in
All Pending Orders
FD
Zip
CD-RW
Net
Other
All Completed Orders
Order Detail

FIG. 12

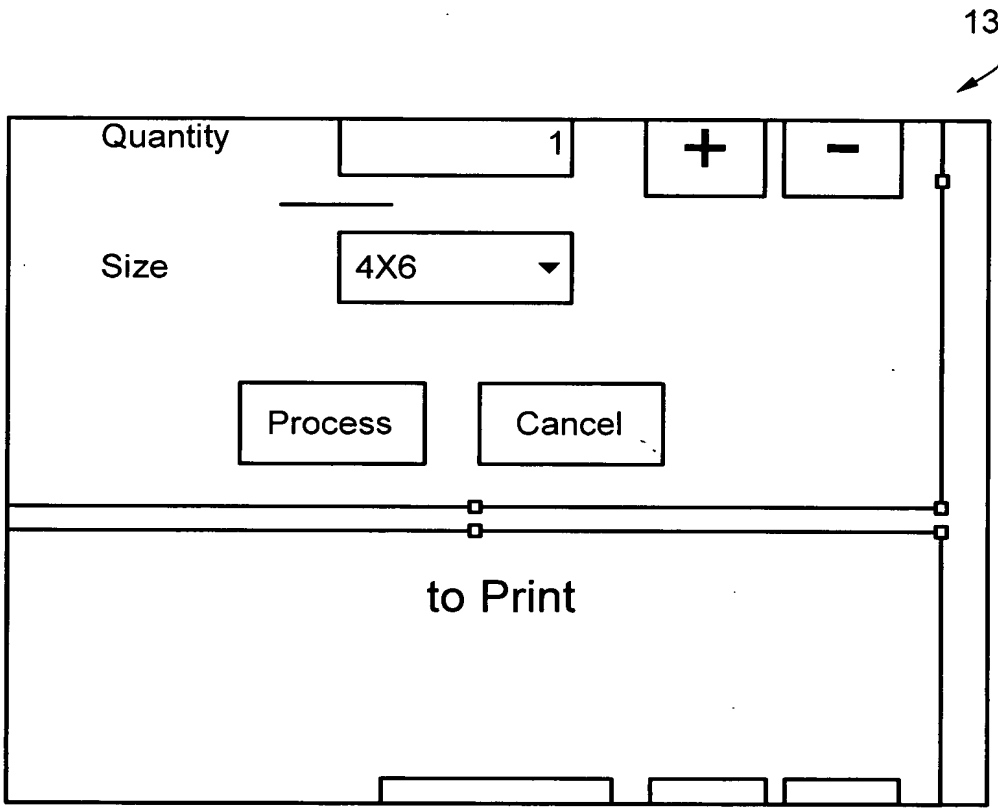


FIG. 13

TOSTSO 60928260

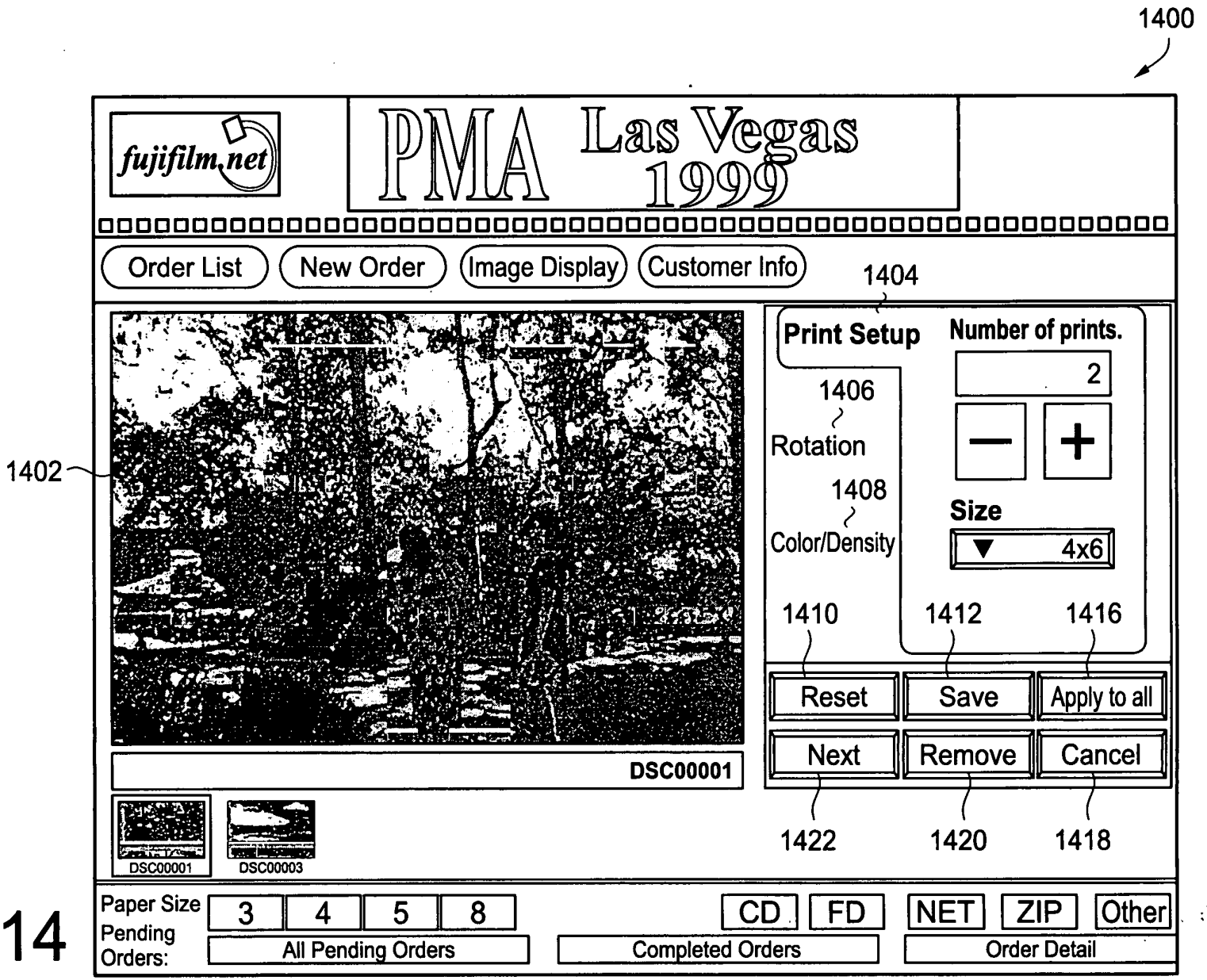


FIG. 14

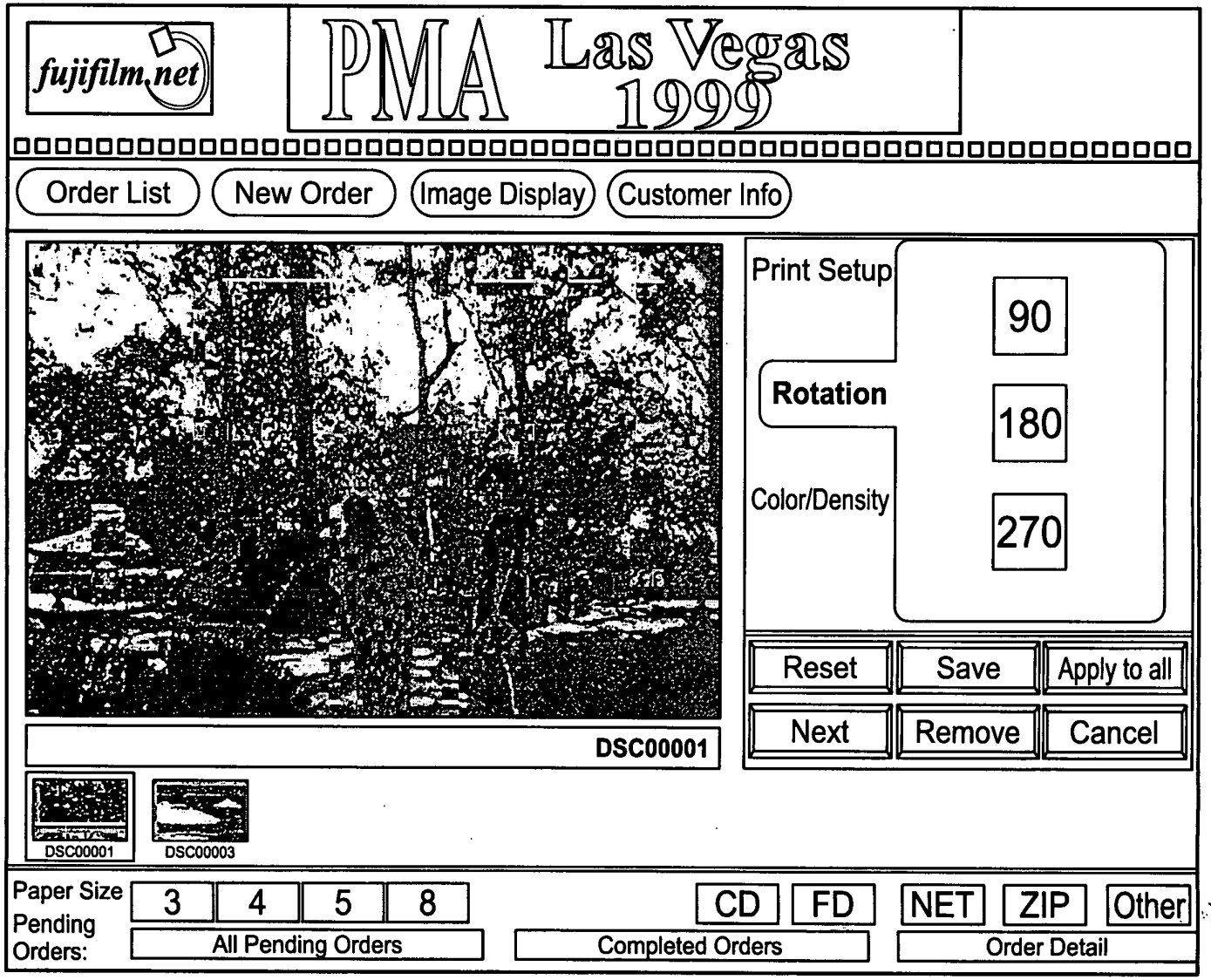

fujifilm.net
PMA Las Vegas 1999
Order List
New Order
Image Display
Customer Info
Print Setup
90
Rotation
180
Color/Density
270
Reset
Save
Apply to all
Next
Remove
Cancel
DSC00001
DSC00001
DSC00003
Paper Size
Pending Orders:
3
4
5
8
All Pending Orders
CD
FD
Completed Orders
NET
ZIP
Other
Order Detail

FIG. 15

TOSTSO 80928260

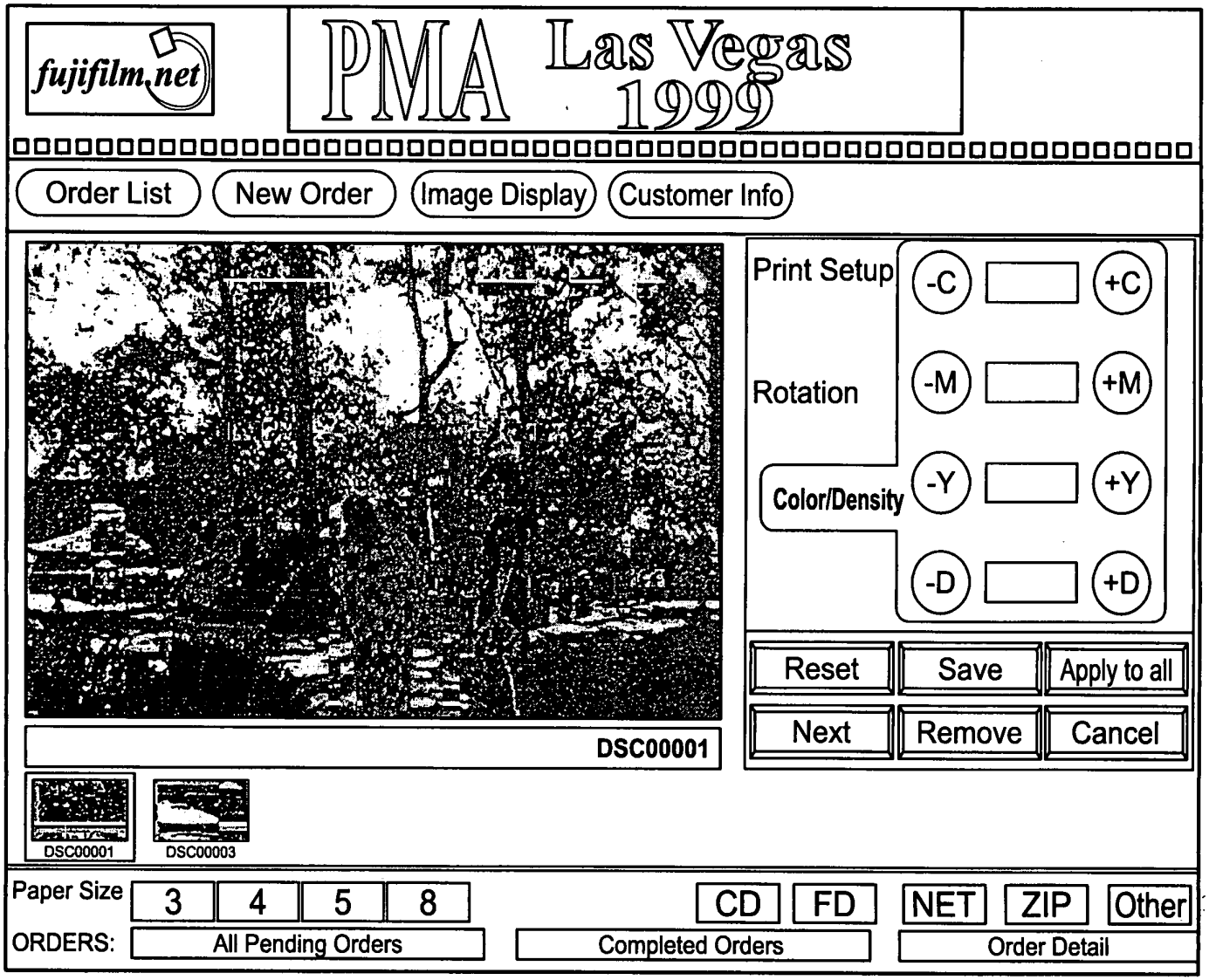


FIG. 16

F0S1S0 60928260

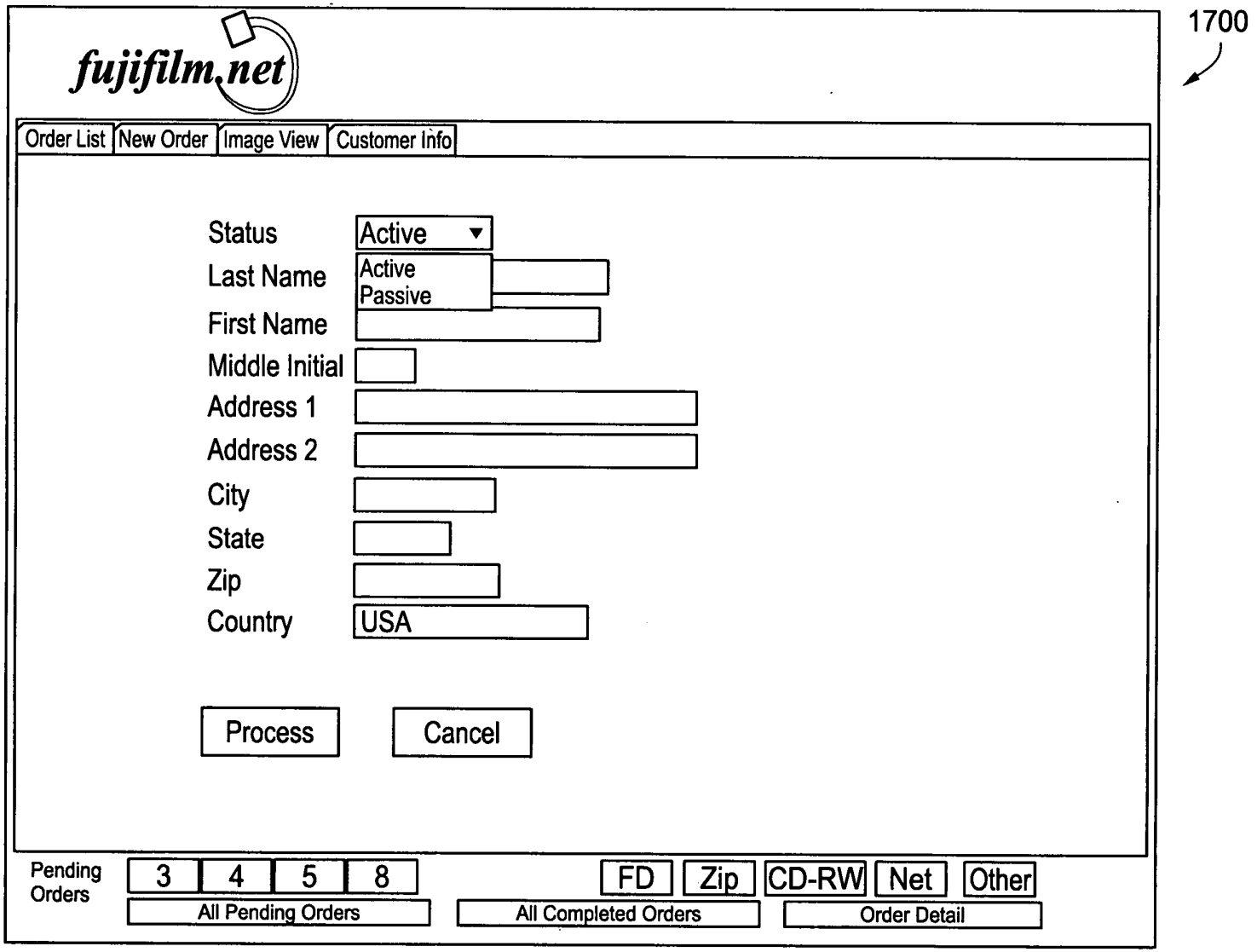


FIG. 17

FOSTER 30926260

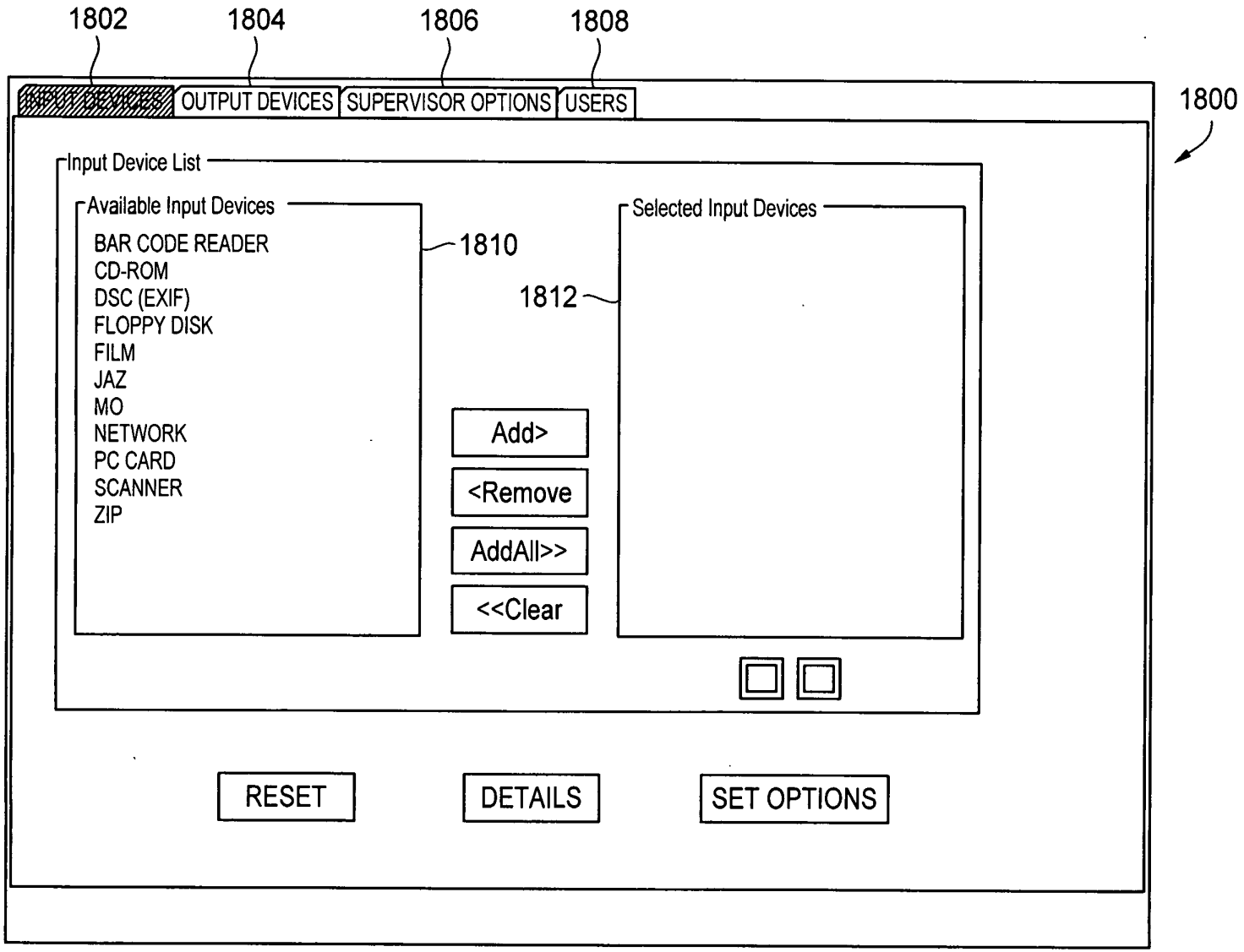


FIG. 18

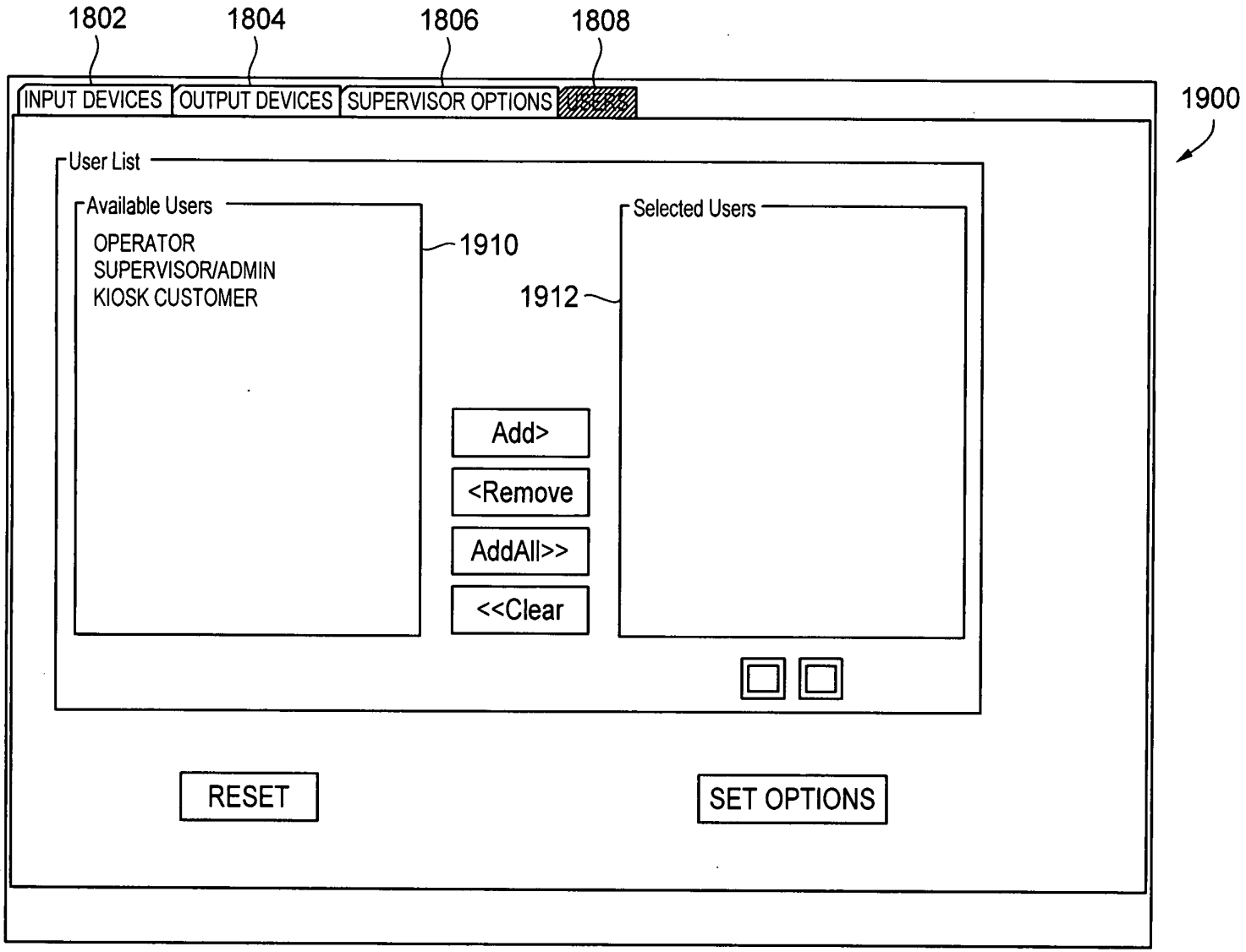

1802
1804
1806
1808
INPUT DEVICES
OUTPUT DEVICES
SUPERVISOR OPTIONS
USERS
1900
User List
Available Users
OPERATOR
SUPERVISOR/ADMIN
KIOSK CUSTOMER
1910
1912
Selected Users
Add>
<Remove
AddAll>>
<<Clear
RESET
SET OPTIONS

FIG. 19

TOSTSO 80928260

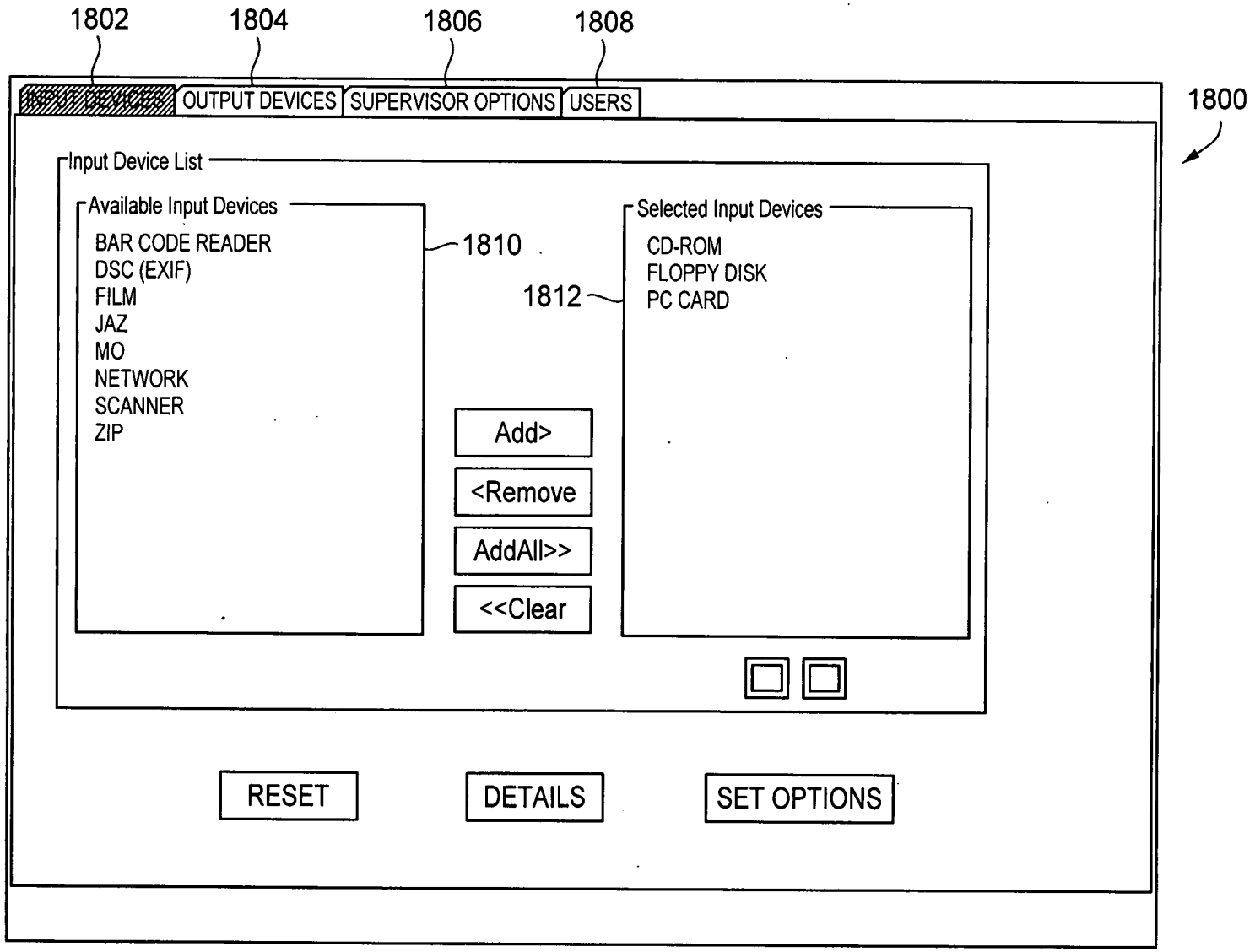


FIG. 20

POSTSCRIPT 6098260

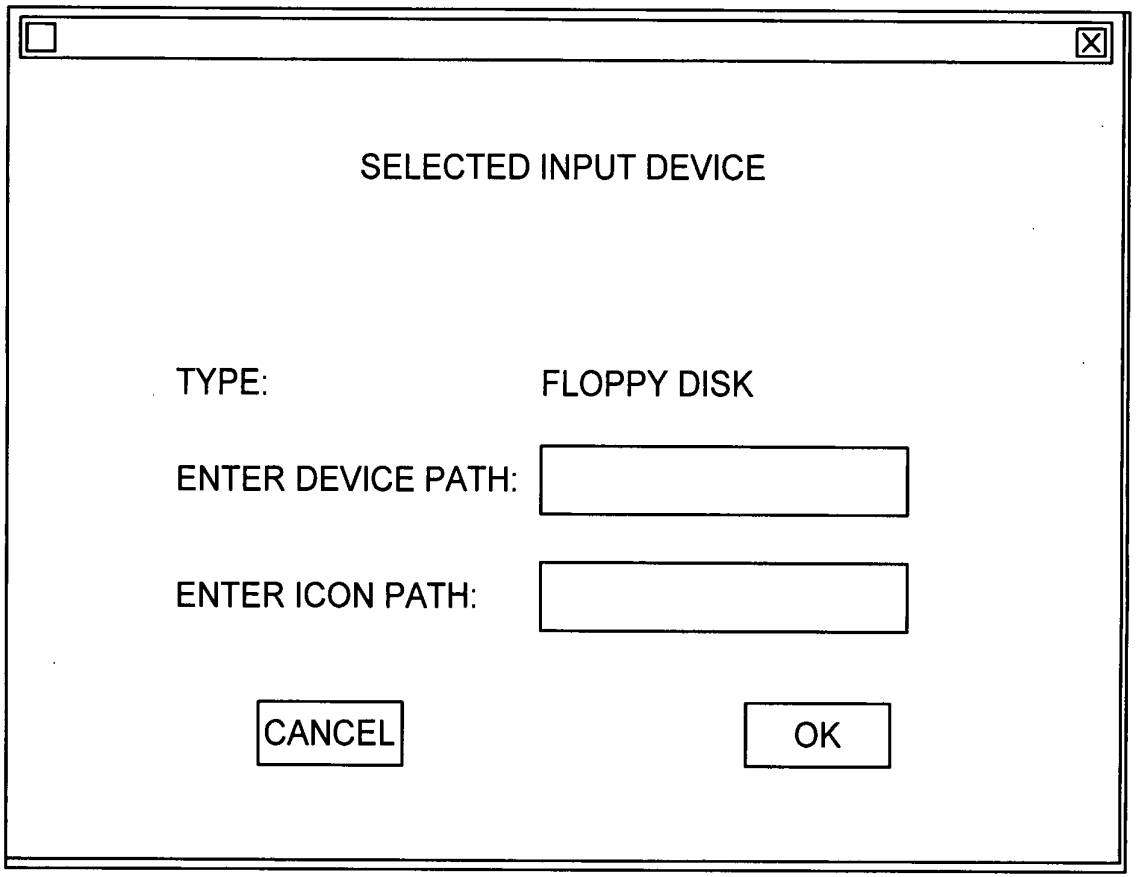


FIG. 21

PATENT 5928260

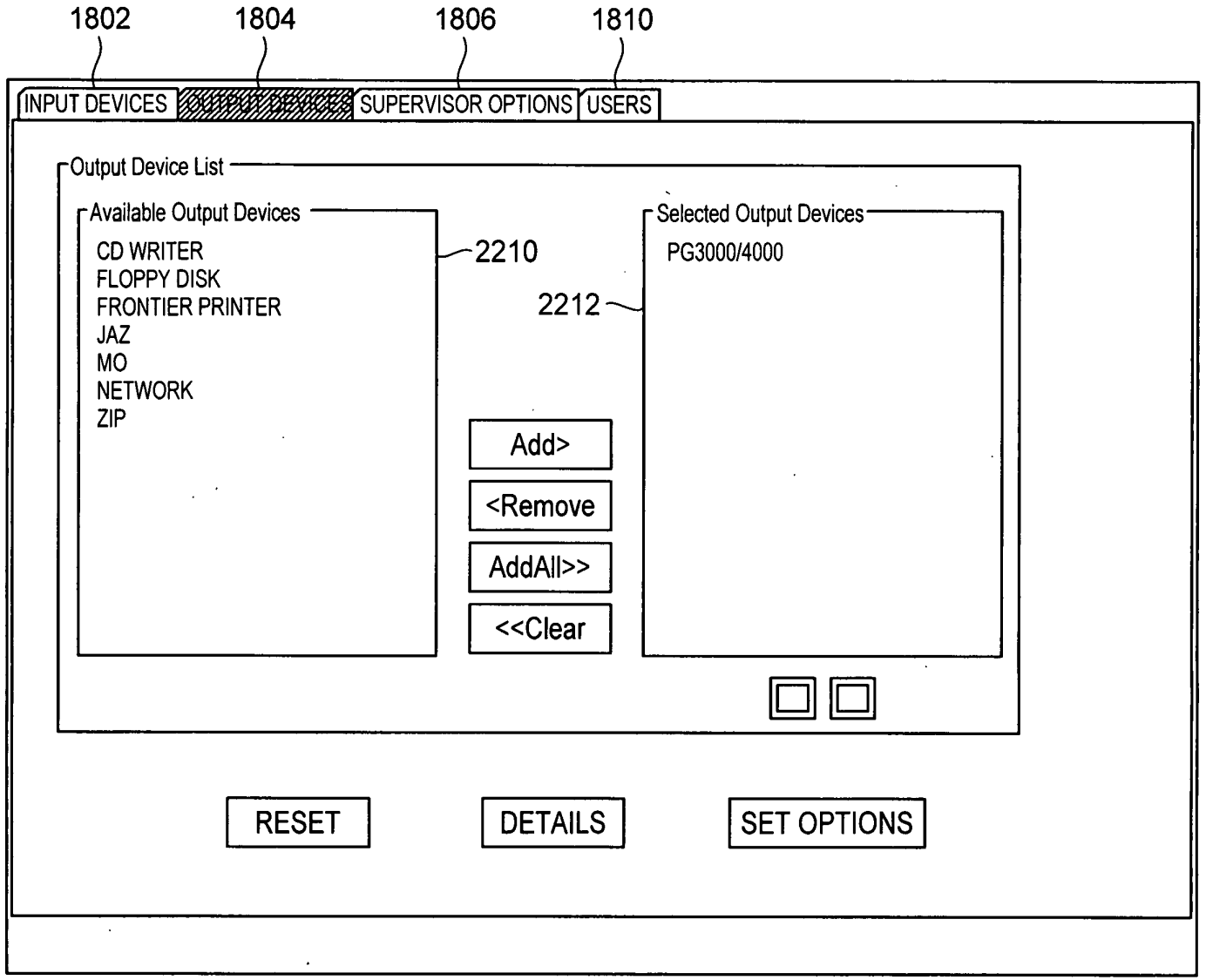


FIG. 22

T0570 "8098260

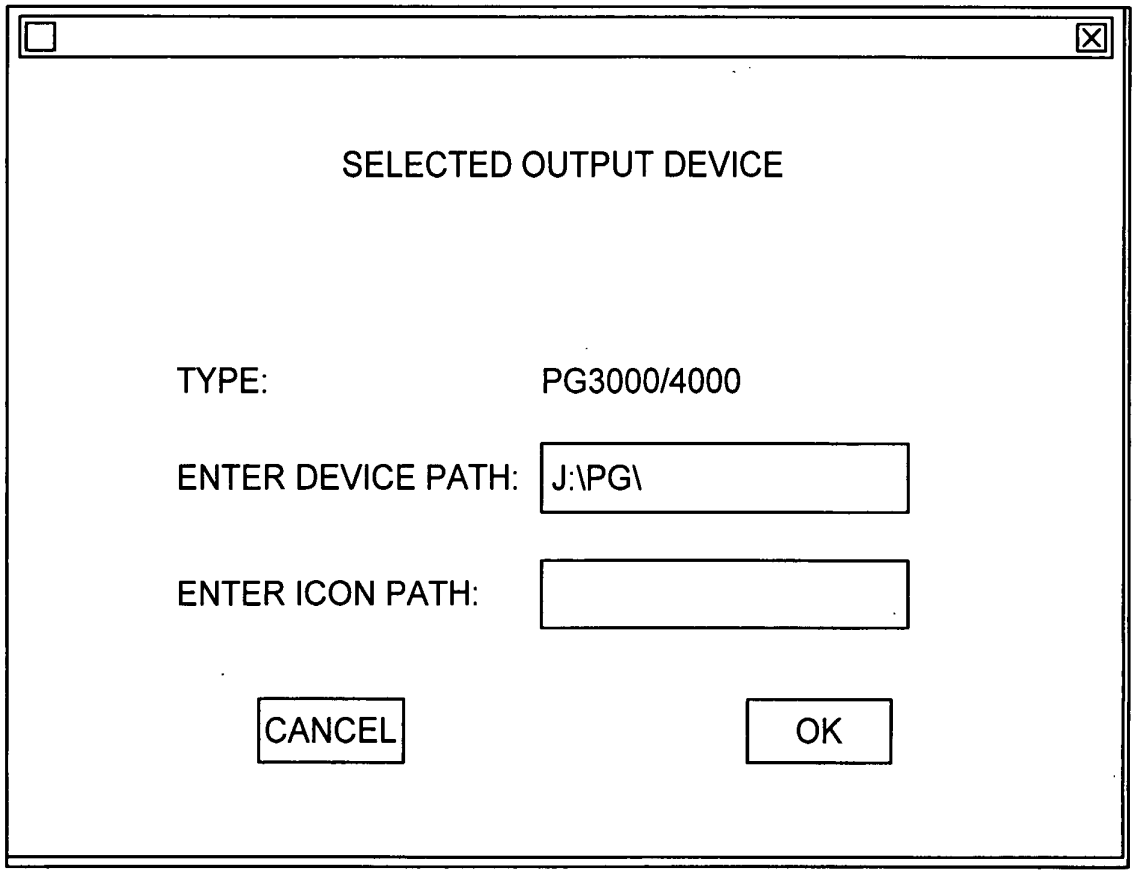


FIG. 23

TOSHIBA 00928266

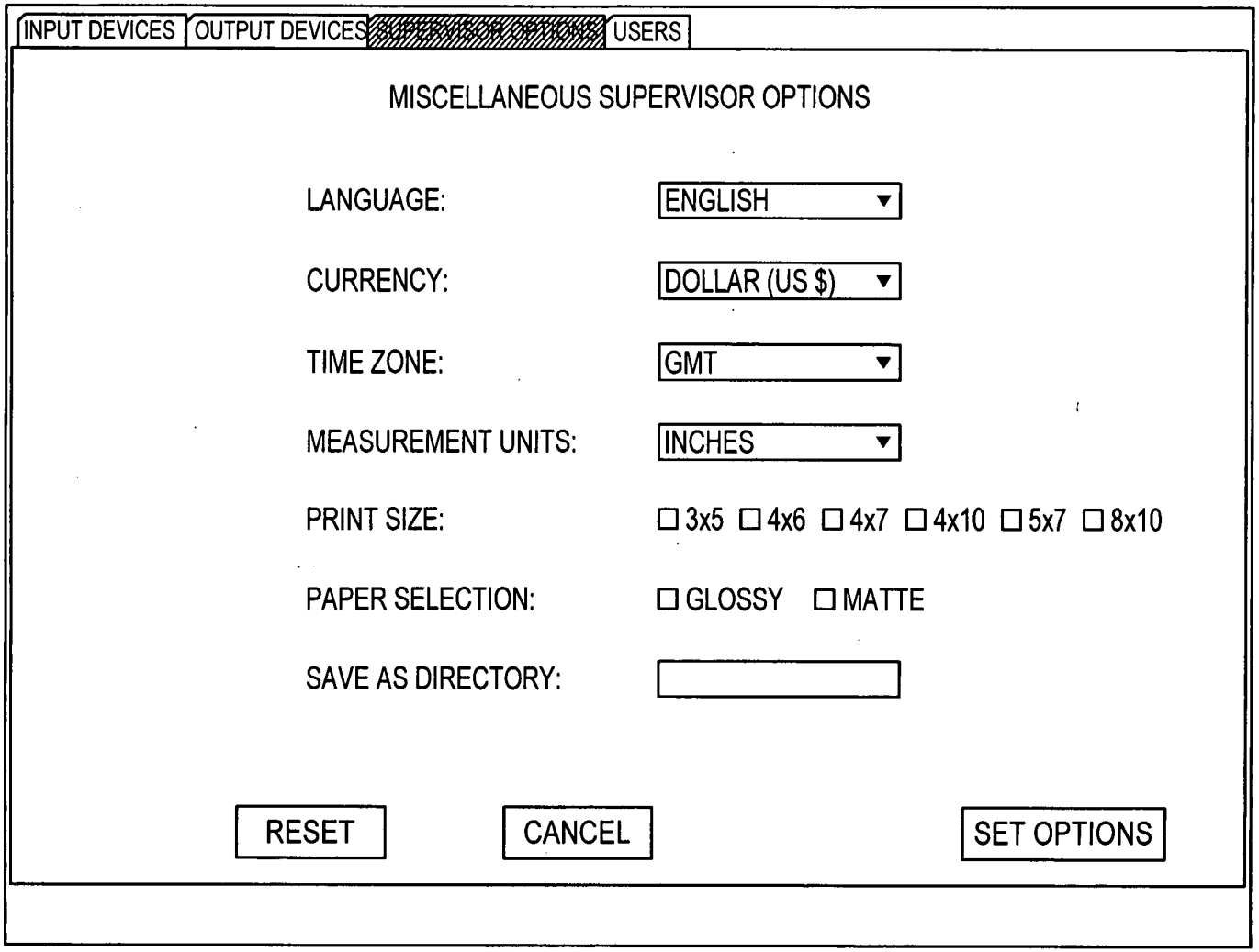


FIG. 24